

The following were donated by Robert T. Lewellen, USDA, ARS, U.S. Agricultural Research Station, 1639 E. Alisal St., Salinas, California 93905, United States. Received 02/25/1994.

PI 578079. *Beta vulgaris* L.

Breeding. C918; 3918; 3918(Sp). Pedigree - Composite crosses and selections within C37 and C46 type germplasm that had genetic ms and Sf incorporated. Rz resistance to rhizomania was also incorporated. Multigerm, self-fertile (Sf), random-mated population facilitated by genetic male sterility (A:aa). Segregates for resistance to rhizomania (Rz). Based upon its pedigree and per se performance, has genetic variability and moderate resistance to virus yellows, curly top, Erwinia (*E. carotovora beta vasculorum*), powdery mildew (*Erysiphe polygoni*) and bolting. An increase through genetic male sterile segregates of S1 lines selected based upon per se performance for nonbolting, disease resistance, and % sucrose. S1 lines from popn-913 and popn-915.

PI 578080. *Beta vulgaris* L.

Breeding. C909-34; 3903-34. Pedigree - Increase of an S1 line from popn-909. Popn-909 is similar to C918. Selected on the basis of performance under rhizomania conditions. Narrowly based line with resistance to Erwinia (*E. carotovora beta vasculorum*), powdery mildew (*Erysiphe polygoni*), and rhizomania (BNYVV) (Rz). Tolerant to virus yellows (BYV & BWYV) and curly top virus. Moderate resistance to bolting.

PI 578081. *Beta vulgaris* L.

Breeding. C909-37; 3909-37. Pedigree - Increase of an S1 line from popn-909. Popn-909 is similar to C918. Selected on basis of performance under rhizomania conditions. Sister line to C909-34. Narrowly based with resistance to Erwinia (*E. carotovora beta vasculorum*), powdery mildew (*Erysiphe polygoni*), and rhizomania (BNYVV) (Rz). Tolerant to virus yellows (BYV & BWYV) and curly top virus. Moderate resistance to bolting.

PI 578082. *Beta vulgaris* L.

Breeding. C911-4; 3911-4. Pedigree - From popn-911. Half-sib family selected on basis of resistance to rhizomania, virus yellows, Erwinia, and bolting and for sugar yield performance. Narrowly based line with Rz for resistance to rhizomania (BNYVV). Segregates M:mm. Moderately resistant to Erwinia (*E. carotovora beta vasculorum*), powdery mildew (*Erysiphe polygoni*), virus yellows (BYV & BWYV), curly top virus, and bolting. Performance traits good for sugar yield.

PI 578083. *Beta vulgaris* L.

Breeding. C911-12; 3911-12. Pedigree - From popn-911. Half-sib family selected on basis of resistance to rhizomania, virus yellows, Erwinia, and bolting and for sugar yield performance. Sister line to C911-4. Narrowly based with Rz for resistance to rhizomania (BNYVV). Segregates M:mm. Moderately resistant to Erwinia (*E. carotovora beta vasculorum*), powdery mildew (*Erysiphe polygoni*), virus yellows (BYV & BWYV), curly top virus, and bolting. Performance traits good for sugar yield.

PI 578084. *Beta vulgaris* L.

Breeding. C911-14; 3911-14. Pedigree - From popn-911. Half-sib family selected on basis of resistance to rhizomania, virus yellows, Erwinia, and bolting and for sugar yield performance. Sister line to C911-4. Narrowly based with Rz for resistance to rhizomania (BNYVV). Segregates M:mm. Moderately resistant to Erwinia (*E. carotovora beta vasculorum*), powdery mildew (*Erysiphe polygoni*), virus yellows (BYV & BWYV), curly top virus, and bolting. Performance traits good for sugar yield.